National Trail Management Classes

Updated 1/31/2005

Trail prescriptions describe the desired management of each trail, based on Forest Plan direction. These prescriptions take into account user preferences, setting, protection of sensitive resources, and other management activities. To meet prescription, each trail is assigned an appropriate Trail Class. These general categories are used to identify applicable Trail Design Parameters and to identify basic indicators used for determining the cost to meet national quality standards.

The General Criteria below define each Trail Class and are applicable to system trails. Subsequent sections provide Additional Criteria specific to Motorized Trails, Pack and Saddle Trails, Snow Trails, and Water Trails.

Trail Class descriptions define "typical" attributes, and exceptions may occur for any attribute. Apply the Trail Class that most closely matches the managed objective of the trail.

Trail Attributes	Trail Class 1 MinimalUndeveloped Trail	Trail Class 2 Simple/Minor DevelopmentTrail	Trail Class 3 Developed/Improved Trail	Trail Class 4 Highly Developed Trail	Trail Class 5 Fully Developed Trail			
	General Criteria Physical Characteristics to be Applied to All National Forest Sytem Trails							
Tread & Traffic Flow	 Tread intermittent and oftenindistinct May require route finding Native materials only 	 Tread discernible and continuous, but narrow and rough Few or no allowances constructed for passing Native materials 	Tread obvious and continuous Width accommodates unhindered oneane travel (occasional allowances constructed for passing) Typically native materials	Tread wide and reltively smooth with few irregularities Width may consistently accommodate twelane travel Native or imported materials May be hardened	Width generally accommodates twelane and twodirectional travel, or provides frequent passing turnouts Commonly hardened with asphalt or other imported material			
Obstacles	Obstacles common Narrow passages; brush, steep grades, rocks and logs present	 Obstades occasionally present Blockages cleared to define route and protect resources Vegetation may encroach into trailway 	 Obstacles infrequent Vegetation cleared outside of trailway 	 Few or no obstacles exist Grades typically <12% Vegetation cleared outside of trailway 	No obstaclesGrades typically <8%			
Constructed Features & Trail Elements	 Minimal to norexistent Drainage is functional No constructed bridges or foot crossings 	 Structures are of limited size, scale, and number Drainage functional Structures adequate to protect trail infrastructure and resources Primitive foot crossings and fords 	 Trail structures (walls, steps, drainage, raised trail) may be common and substantial Trail bridges as needed for resource protection and appropriate access Generally ative materials used in Wilderness 	Structures frequent and substantial Substantial trail bridges are appropriate at water crossings Trailside amenities may be present	Structures frequent or continuous; may include curbs, handrails, trailside amenities, and boardwalks Drainage structures frequent; may include culverts and roadike designs			

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	General Criteria Physical Characteristics to be Applied to All National Forest Sytem Trails							
Signs	Minimum required Generally limited to regulation and resource protection No destination signs present	 Minimum required for basic direction Generally limited toegulation and resource protection Typically very few or no destination signs present 	 Regulation, resource protection, user reassurance Directional signs at junctions, or when confusion is likely Destination signs typically present Informational and interptive signs may be present outside of Wilderness 	 Informational signs likely (outside of Wilderness) Interpretive signs possible (outside of Wilderness) Trail Universal Access 	 Wide variety of signage is present Information and interpretive signs likely Trail Universal Access information is typically displayed at trailhead 			
Typical Recreation Environs & Experience ²	Natural, unmodified ROS: OftenPrimitive setting, but may occurin other ROS settings WROS: Primitive	 Natural, essentially unmodified ROS: Typicall Primitive to Semi-Primitive setting WROS: Primitive to Semi Primitive 	 Natural, primarily unmodified ROS: Typically Semi Primitive to Roaded Natural setting WROS: SemiPrimitive to Transition 	 May be modified ROS: Typically Roaded Natural to Rural setting WROS: Transition 	 Can be highly modified ROS: Typically Rural to Urban setting Commonly associated with Visitor Centers or highuse recreation sites Not present in Wildrness 			

¹ For user-specific design criteria and specifications, refer to Forest Service Handbook and other applicable agency references.

² Typical Recreation Environment & Experience descriptors are provided to assist with understanding Trail Classes. They represent typical or commonly occurring Trail Class and ROS or WROS setting combinations, but are not intended to indicate combinations that are "allowed" or not allowed". The appropriate Trail Class should be determined by local managers at the trail-specific level, based on Forest Plan direction and other considerations. While less developed trails may occur in any ROS setting, they typically occur in less developed ROS settings. Similarly, more highly developed trails tend to occur in more highly developed ROS settings, but may occur in less developed ROS settings (with the exception of Trail Class 5 which in not consistent with Primitive settings).

Additional Criteria

The following sections provide Additional Criteria specific to Pack and Saddle Trails, Motorized Trails, Snow Trails and Water Trails. These criteria are to applied in addition to the General Criteria above, which are applicable to all system trails.

Trail Attributes	Trail Class 1 Minimal/Undeveloped Trail	Trail Class 2 Simple/Minor Development Trail	Trail Class 3 Developed/Improved Trail	Trail Class 4 Highly Developed Trail	Trail Class 5 Fully Developed Trail			
	Additional Criteria for Pack and Saddle Trails Apply inaddition to Trail Class General Criteria							
Pack and Saddle Trails		 Trailway narrow. Some brush encroachment may exist, though bump* trees are generally removed Tread surface rough, with frequer protrusions and bstacles that limit speed and maneuverability of pac and saddle stock Tread rarely or not graded. Obstacles cleared if they substantially restrict the managed use and difficulty level Tread surface commonly loose native material, such as sand, mud, rocketc. Switchbacks and turns accommodate pack stock though may require slower speeds Crossings may be wet fords if base material is sable; possibly with simple hadening or armoring for resource protection. Simple bridges present if required for resource protection. Trails have infrequent markers or route identifiers,dcated primarily at junctions. Signing size and type appropriate for managed speeds and use. 	 Trail wide and suitable for pack and saddle stock to pass periodically. Occasional moderate treat protrusions and short awkward sections, which require speed adjustments Tread infrequently graded. Obstacles cleared if they substantially hinder the managed use and diffulty level. Tread surface generally native materials, with occasional on site fill or imported materials, if more stable surface is desired. Crossings may be wet fords; likely with hardening and armoring or simple bridges for resource potection and to ensure appropriate access. Trails have frequent markers and are readily followed Signing size and type appropriate for managed uses. 	the managed use type, and may consistently accommodate tweway passage. Tread surface generally smooth with only small protrusions, which moderately affect speed and ease of tavel. Tread graded as needed.				

^{* &}quot;Bump trees" are any trees located closely enough to the trail that they may be hit or bumped by standar**g**ized pack boxes carried by packstock travelling the route.

Trail Attributes	Trail Class 1 Minima/Undeveloped Trail	Trail Class 2 Simple/Minor DevelopmentTrail	Trail Class 3 Developed/ImprovedTrail	Trail Class 4 Highly DevelopedTrail	Trail Class 5 Fully DevelopedTrail			
	Additional Crit eria for Motorized Trails Apply inaddition to Trail Class General @eria							
Motorized Trails Motorcycle/ATV (etc.)		protrusions and obstacles that lim speed and maneuverability of vehicle	Trail wide and suitable for one lane and occasional two passage for managed use types Occasional moderate tread protrusions and short awkward sections, which require specifications, which require they substantially hinder they substantially hinder they managed use and diffulty level. Tread surface generally native materials, with occasional on site fill or imported materials, if more stable surface is desired. Crossings may be wet fords; likely with hardening and armoring or simple bridges for resource potection and to ensure appropriate access. Trails have frequent markers and are readily followed Signing size and type appropriate for managed speeds and potential nighttime use (signs likely reflectoized).	accommodate tweway passage. Tread surface generally smooth with only small protrusions, which moderately affect speed and ease of travel. (Some roughness may bælesired and incorporated to control/limit speed.) Tread graded as needed. Tread surface may include imported aggregate or intermittent paved sections it more stable surface is desired. Crossings are typically either hardened or armored or a substantial bdge. Recommended speeds or speed limits may be posted.				

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	Additional Crit eria for Snow Trails Apply inaddition to Trail Class General Criteria							
Snow Trails OSV/Ski	skiers as primary use type.	 Periodic reassurance markers Infrequently compacted, if ever. Typically, small rodside or roadend tralheads with minimal facilities. Tralhead plowed when access is substantially limited, but not necessarily after every snowfall. Trailway is narrow; prodes one lane passage and infrequent two lane passage for maaged use types. Winter-specific signs may be present as described in General Criteria (above). 	 Typically, basic roadside parking or roadend trailheads with simple facilities. Trailhead plowed to ensure reasonable access by trail sers shortly after heavy snowfalls. Simple shelters may be present. Trailway provides unhindered 	trailheads with toilets and other facilities for winter users. Trailhead regularly plowed to ensure access for most vehicles during and immediately after snowfall. Shelters likely present Trailway is wide and may consistently provide two ay passage for managed use types.	Not managed for OSV or skiers as primary use type.			

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	Additional Crit eria for Water Trails Apply inaddition to TrailClass General Criteria								
Water Trails For Portage sections of Water Trails, see "General Criteria" above. Note: Many facilities and features described in this row are commonly associated with hiking/portage trails, Concentrated Use Areas or Developed Sites (as compared to the Water Trail itself), and are described here primarily for guidance in applying appropriate Trail Class.	shown on maps and used to access other trails or portages, but with no trail structures, facilities, signs, or recurring maitenance needs along the route. Maintenance consists of occasional patrols and resource protection. Signs and/or parking facilities at initial access points only, and likely associated with other trails	 Very few markers or route designators, and likely none in wilderness. Low profile structures or facilities occasionally present; primarily to reduce beach and bank impas. Structures typically consist of native material hardening of portage/water etry points. Signs or parking facilities at initial access point only, and may be associated with another trail or site. On water trails where dense vegetation and obstructionoccur, path is typically narrow, shallow, and may occasionally require use to lift over obstacles or break path through some vegetation and duc under overhanging branches. 	 Buoys or markers posible to identify route Typically, facilities on motorized or nonwilderness trails to provide improved access and to reduce beach and bank impacts Well-developed parking and launch facilities at primary access points, but facilities and structures rare along trail. Interpretive and informational displays typically pesent at primary access points. On water trails where dense vegetation and obstructions occur (swamps), path is typically cleared wide enough for ready passage and maneuvering of at least one vessel, and usually two-way vessel passage, with only ocæsional low overhanging vegetation. 	facilities, docks, and amenities typically provided for user convenience.	Not managed for watercraft as primary use type.				

Trail Operation and Maintenance Considerations

Trail Operation and Maintenance Considerations are intended to complement the National Trail Class General Critteese considerations can be regarded as general guidelines to assist in developing trail prescriptions, and subsequent program management, operations and maintenance. Trail O&M Considerations officer as togetting point and will likely be adapted reflect financial limitations and specific district, forest, or regional circumstances. The broad guidance outlined below reflects "typical togetting being in different Trail Classes:

Trail Attributes	Trail Class 1 Minima/UndevelopedTrail	Trail Class 2 Simple/Minor DevelopmentTrail	Trail Class 3 Developed/ImprovedTrail	Trail Class 4 Highly Developed Trail	Trail Class 5 Fully DevelopedTrail	
Trail Management	Typically managed to accommodate:	Typicaly managed to accommodate:	Typically managed to accommodate:	Typically managed to accommodate:	Typically managed to accommodate:	
	 Low use levels 	 Low-to-moderate use levels 	Moderate to heavy use	 Very heavy use 	◆ Intensive se.	
	 Highly skilled users, comfortable offtrail. 	 Mid-to-highly skilled users, capable of traveling over 	capable of traveling over	Users with intermediate skill level and experience	 Users with minimal skills and experience 	 Users with limited trail skills and experience.
	 Users with high egree of orienteering skill 	awkward condition/obstaclesUsers with moderate	 Users with minimal orienteering skills. 	Users with minimal or no orienteering skills. Easy/comfortable travel by managed use types	 Trail typically meets agency requirements for accessibility 	
	 Some travel modes and abity levels may be impractal or 	involves advanced skils.	 Moderately easy travel by managed use types 		 Includes "Pedestrian Trails". 	
	impossible, and may not be encouraged.		 Random potential for accessible use 	 May be (or has potetial to be made) accessible. 		
	 Water Trails: Users require high level of navigation/orientation and paddling skills. 	 Water Trails: Moderate to high level of navigation/orientation and paddling/piloting skills required 	 Water Trails: Basic to moderate navigation and paddling/piloting skills required 	 Water Trails: Basic nagation and paddling/piloting skills required. 		
Maintenance	Resource protection	• Resourceprotection	Resource protection	User comfort and ease	 User comfort and ease 	
Indicators	Safety commensurate with targeted recreational experience	Safety commensurate with targeted recreational experience	User convenienceSafety commensurate with targeted recreational	 Resource Protection Safety commensurate with targeted recreational 	Targeted high level of accessibility to key recreational opportunities.	
			experience	experience	 Safety commensurate with targeted recreational experience 	
Maintenance Frequency & Intensity**	Infrequent or no scheduled recurring maint nance. Maintenance interval is	Maintenance scheduled to preserve the trail facility and route location.	 Trail cleared to make available for use early in use season, and to preserve trail integrity. 	 Trail cleared to make available for use at earliest poportunity in use season 	 Maintenance performed at least annually, or as needed to meet posted conditions 	
ſ		 Maintenance interval typically 3 solutions 5 years, or in responsto reports of unusual problems. 	 Maintenance interval typically 1-3 years, or in response to reports of trail or resource damage or significant obstacles to managed use type and experience level 	 Typically, maintenance performed at least annually. 	Major damage or safety concerns (outside of UA conditions posted at trailhead) typically corrected or posted <24 hours of notice.	

^{**} See Trail Condition Assessment Survey Matrix (CASM) for survey interval and intensity.